

**FEB 21 2002**

PTO/SB/08A (08-00)

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Substitute for form 1449A/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet	1	of	2
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**Complete if Known**

Application Number	10/028,075
Filing Date	12/21/2001
First Named Inventor	Khan et al.
Group Art Unit	to be assigned 1636
Examiner Name	to be assigned J. Dunston
Attorney Docket Number	2183-5223US

## U.S. PATENT DOCUMENTS

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## FOREIGN PATENT DOCUMENTS

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**Examiner  
Signature**

/Jennifer Dunston/ (05/18/2007)

Date Considered

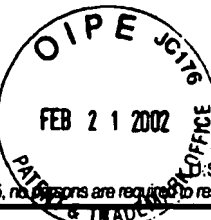
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## **OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
/JD/		CONNELLY et al., Biphasic Regulation of NF-κB Activity Underlies the Pro- and Anti-Inflammatory Actions of Nitric Oxide, The Journal of Immunology, 2001, pp. 3873-81, 168, The American Association of Immunologists, USA.	
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/JD/		MEDZHITOV, Toll-like Receptors and Innate Immunity, Nature Reviews/Immunology, November 2001, pp. 135-45, Vol. 1.	

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/JD/		PCT International Search Report, PCT/NL01/00259, dated December 18, 2001, 3 pages.	
		PCT International Preliminary Examination Report, PCT/NL99/00313, dated July 21, 2000, 6 pages.	
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		Number - Kind Code <sup>2</sup> (if known)			
/JD/		US- 4,977,244	12-11-1990	Muchmore et al.	
		<del>US- 5,677,273</del>	<del>10-14-1997</del>	<del>Lunardi-Iskandar et al.</del>	Duplicate Citation
/JD/		US- 5,877,148	03-02-1999	Lunardi-Iskandar et al.	
		US- 5,958,413	09-28-1999	Anagnostopoulos et al.	
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		US- 6,620,416 B1	09-16-2003	Gallo et al.	
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/JD/		US- 6,489,296	12-03-2002	Grinnell et al.	

**FOREIGN PATENT DOCUMENTS**

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		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
/JD/		EP 1 300 418	04-09-2003	Erasmus Universiteit Rotterdam		
		WO 98/35691	08-20-1998	Proscript, Inc.		
		WO 02/085117	10-31-2002	Eisai Co., Ltd.		
		DE 3715662	11-19-1987	The Wellcome Foundation Ltd.		
		DE 19953339	05-17-2001	Goldham Pharma GmbH		
		WO 96/04008	02-15-1996	Government of the United States		
		WO 97/49373	12-31-1997	University of Maryland Biotechnology Institute		
		WO 97/49418	12-31-1997	University of Maryland Biotechnology Institute		
/JD/		WO 97/49432	12-31-1997	University of Maryland Biotechnology Institute		

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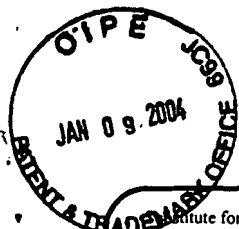
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		Group Art Unit	<del>1632</del> 1636		
		Examiner Name	T. McKelvey J. Dunston		
Sheet	2	of	2	Attorney Docket Number	2183-5223US

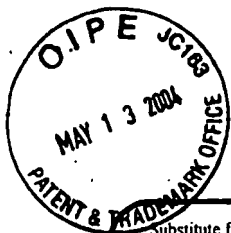
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/JD/		CHRISTMAN et al., Nuclear factor kappaB: a pivotal role in the systemic inflammatory response syndrome and new target for therapy, Intens Care Med, 1998, pp. 1131-38, Vol. 24.	
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/JD/		MUCHMORE et al., Purification and Characterization of a Mannose-Containing Disaccharide Obtained from Human Pregnancy Urine, Journal of Experimental Medicine, December 1984, pp. 1672-85, Volume 160.	

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/JD/		US-5,380,668	01-10-1995	Herron	
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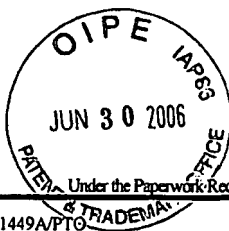
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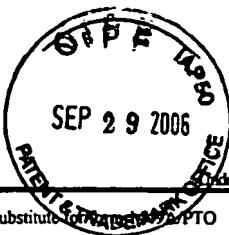
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**INFORMATION DISCLOSURE  
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Sheet 1 of 3

**Complete if Known**

Application Number	10/028,075
Filing Date	December 21, 2001
First Named Inventor	Khan et al.
Group Art Unit	1636
Examiner Name	J. Dunston
Attorney Docket Number	2183-5223US

**U.S. PATENT DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
/JD/		US-2003/0148955	08-2003	Pluenneke	
		US- 4,427,660	01-1984	Schiffman et al.	
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		US- 5,002,961	03-1991	Dage et al.	
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		US- 6,630,138	10-2003	Gerlitz et al.	
/JD/		US- 6,831,057	12-2004	Baldwin et al.	
		US-			
		US-			
		US-			

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		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
/JD/		WO 98/34631 A1	08-1998	Thomas Jefferson University		
/JD/		WO 2001/83554 A2	11-2001	Praecis Pharmaceuticals Incorporated et al.		

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		Filing Date	December 21, 2001
		First Named Inventor	Khan et al.
		Group Art Unit	1636
		Examiner Name	J. Dunston
		Attorney Docket Number	2183-52231JS
Sheet	2	of	3

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		BROWN et al., "Two Forms of NF-kappaB1 (p105/p50) in Murine Macrophages: Differential Regulation by Lipopolysaccharide, Interleukin-2, and Interferon-gamma," Journal of Interferon and Cytokine Research, 1997, pp. 295-306, Vol. 17.	
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		First Named Inventor	Khan et al.
		Group Art Unit	1636
		Examiner Name	J. Dunston
		Attorney Docket Number	2183-52231JS
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Filing Date	December 21, 2001
First Named Inventor	Khan et al.
Group Art Unit	1636
Examiner Name	J. Dunston
Attorney Docket Number	2183-5223US

Sheet	1	of	2
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## U.S. PATENT DOCUMENTS

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/JD/		CUI et al., Am. J. Physiol. Integr. Comp. Physiol., 2004, pp. R699-R709, Vol. 286.	
		DWINNELL et al., Atlas of Diseases of the Kidney, Blackwell Sciences, 1999, pp. 12.1-12.12, Ch. 12.	
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		MOAYERI et al., Journal of Clinical Investigation, September 2003, pp. 670-82, Vol. 112, No. 5.	
↓		NGO et al., The protein folding problem and tertiary structure prediction, 1994, pp. 492-94.	
/JD/		PELLIZZARI et al., FEBS Letters, 1999, pp. 199-204, Vol. 462.	

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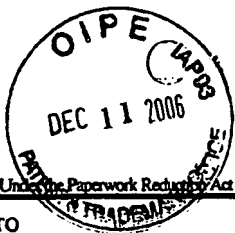
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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

*(use as many sheets as necessary)*

Sheet ~~1~~ 3 of ~~2~~ 14

**Complete if Known**

<b>Application Number</b>	<b>10/028,075</b>
<b>Filing Date</b>	<b>December 21, 2001</b>
<b>First Named Inventor</b>	<b>Khan et al.</b>
<b>Group Art Unit</b>	<b>1636</b>
<b>Examiner Name</b>	<b>J. Dunston</b>
<b>Attorney Docket Number</b>	<b>2183-5223US</b>

## U.S. PATENT DOCUMENTS

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## FOREIGN PATENT DOCUMENTS

[illegible]

**Examiner  
Signature**

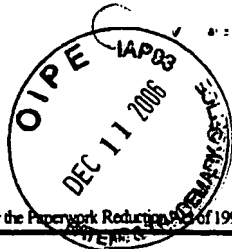
/Jennifer Dunston/ (05/18/2007)

Date Considered

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PTO/SB/08B(10-03)

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Sheet 4 of 14

**Complete if Known**

Application Number	10/028,075
Filing Date	December 21, 2001
First Named Inventor	Khan et al.
Group Art Unit	1636
Examiner Name	J. Dunston
Attorney Docket Number	2183-52231JS

**NON PATENT LITERATURE DOCUMENTS**

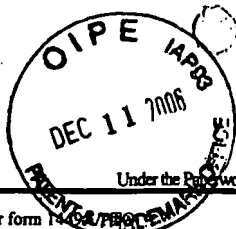
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		Coff et al., Am. J. Physiol. Integr. Comp. Physiol., 2004, pp. R699-R709, Vol. 286.	
		DWINNELL et al., Atlas of Diseases of the Kidney. Blackwell Sciences, 1999, pp. 12.1-12.12, Ch. 12.	
		KALNS et al., Biochem. Biophys. Res. Comm., 2002, pp. 506-09, Vol. 297.	
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		PELLIZZARI et al., FEBS Letters, 1999, pp. 199-204, Vol. 462.	
		Duplicate Citations	

Examiner Signature	/Jennifer Dunston/ (05/18/2007)	Date Considered	
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**INFORMATION DISCLOSURE  
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Sheet 5 of 14

**Complete if Known**

Application Number	10/028,075
Filing Date	December 21, 2001
First Named Inventor	Khan et. al.
Group Art Unit	4632 1636
Examiner Name	T. McKelvey J. Dunston
Attorney Docket Number	2183-5223US

**U.S. PATENT DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
		US- 4,977,244	12-11-1990	Muchmore et al.	
		US- 5,674,275	10-14-1997	Lunardi-Iskandar et al.	
		US- 5,877,148	03-02-1999	Lunardi-Iskandar et al.	
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		US- 5,851,997	12-22-1998	Harris	
		US- 6,489,296	12-03-2002	Grinnell et al.	

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**FOREIGN PATENT DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
		EP 1 300 418	04-09-2003	Erasmus Universiteit Rotterdam		
		WO 98/35691	08-20-1998	Proscript, Inc.		
		WO 02/085117	10-31-2002	Eisai Co., Ltd.		
		DE 3715662	11-19-1987	The Wellcome Foundation Ltd.		
		DE 19953339	05-17-2001	Goldham Pharma GmbH		
		96/04008	02-15-1996	Government of the United States		
		97/49373	12-31-1997	University of Maryland Biotechnology Institute		
		97/49418	12-31-1997	University of Maryland Biotechnology Institute		
		97/49432	12-31-1997	University of Maryland Biotechnology Institute		

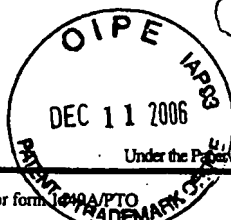
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		Application Number	10/028,075
		Filing Date	December 21, 2001
		First Named Inventor	Khan et. al.
		Group Art Unit	1692 1636
		Examiner Name	T. McKelvey J. Dunston
Sheet 26 of 14	Attorney Docket Number	2183-5223US	

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		CHRISTMAN et al., Nuclear factor kappaB: a pivotal role in the systemic inflammatory response syndrome and new target for therapy, Intens Care Med, 1998, pp. 1131-38, Vol. 24.	
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		MUCHMORE et al., Purification and Characterization of a Mannose-Containing Disaccharide Obtained from Human Pregnancy Urine, Journal of Experimental Medicine, December 1984, pp. 1672-85, Volume 160.	

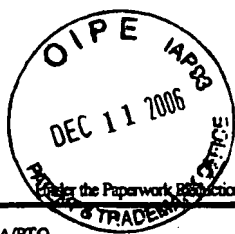
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**INFORMATION DISCLOSURE  
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Sheet 1 of 14**Complete if Known**

Application Number	10/028,075
Filing Date	December 21, 2001
First Named Inventor	Khan et al.
Group Art Unit	1636
Examiner Name	J. Dunston
Attorney Docket Number	2183-52231US

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		KIDD et al., "Autism, An Extreme Challenge to Integrative Medicine. Part II: Medical Management," Alternative Medicine Review, 2002, pp. 472-499, Vol. 7, No. 6.	
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		YANG et al., "Increased cortical nuclear factor kappaB (NF-kappaB) DNA binding activity after traumatic brain injury in rats," Neuroscience Letters, 1995, pp. 101-104, Vol. 197.	

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**Complete if Known**

Application Number	10/028,075
Filing Date	12/21/2001
First Named Inventor	Khan et al.
Group Art Unit	To be assigned 1636
Examiner Name	To be assigned J. Dunston
Attorney Docket Number	2183-5223US

Sheet ~~7~~ 8 of ~~2~~ 14

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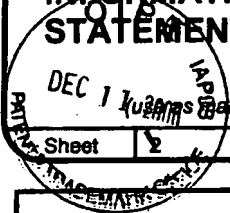
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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT



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Sheet 2 of 14

## Complete If Known

Application Number	10/028,075
Filing Date	12/21/2001
First Named Inventor	Khan et al.
Group Art Unit	To be assigned 1636
Examiner Name	To be assigned J. Dunston
Attorney Docket Number	2183-5223US

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		CONNELLY et al., Biphasic Regulation of NF-κB Activity Underlies the Pro- and Anti-inflammatory Actions of Nitric Oxide, The Journal of Immunology, 2001, pp. 3873-81, 166, The American Association of Immunologists, USA.	
		FRIEDLANDER, Tackling anthrax, Nature, November 8, 2001, pp. 180-81, Vol. 414.	
		MEDZHITOV, Toll-Like Receptors and Innate Immunity, Nature Reviews/Immunology, November 2001, pp. 135-45, Vol. 1.	
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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Sheet 2 of 14**Complete if Known**

Application Number	10/028,075
Filing Date	December 21, 2001
First Named Inventor	Khan et al.
Group Art Unit	1636
Examiner Name	T. McKelvey J. Dunston
Attorney Docket Number	2183-5223US

**NON PATENT LITERATURE DOCUMENTS**

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		KACHRA et al., "Low Molecular Weight Components but Not Dimeric HCG Inhibit Growth and Down-Regulate AP-1 Transcription Factor in Kaposi's Sarcoma Cells," Endocrinology, 1997, pp. 4038-4041, vol. 138, no. 9.	
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		KHAVINSON et al, Gerontological Aspects of Genome Peptide Regulation, 2005, S. Karger AG, Basel, Switzerland.	
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Signature

/Jennifer Dunston/ (05/18/2007)

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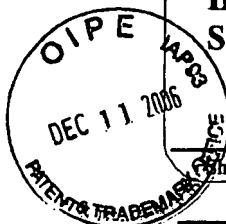
## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 12 of 14

**Complete if Known**

Application Number	10/028,075
Filing Date	December 21, 2001
First Named Inventor	Khan et al.
Group Art Unit	<del>To be assigned</del> 1636
Examiner Name	<del>To be assigned</del> J. Dunston
Attorney Docket Number	2183-5223US



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Sheet 13 of 14**Complete if Known**

Application Number	10/028,075
Filing Date	December 21, 2001
First Named Inventor	Khan et al.
Group Art Unit	<del>To be assigned</del> 1636
Examiner Name	<del>To be assigned</del> J. Dunston
Attorney Docket Number	2183-5223US

**OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		PCT International Search Report, PCT/NL01/00259, dated December 18, 2001, 3 pages.	
		PCT International Preliminary Examination Report, PCT/NL99/00313, dated July 21, 2000, 6 pages.	
		PCT International Search Report, PCT/EP99/00313, dated November 29, 1999, 3 pages.	
		Lang et al., "Induction of apoptosis in Kaposi's sarcoma spindle cell cultures by the subunits of human chorionic gonadotropin", <u>AIDS</u> 1997, Vol. 11, No. 11, pp.1333-1340.	
		Iskandar et al., "Effects of a urinary factor from women in early pregnancy on HIV-1. SIV and associated disease", <u>Nature Medicine</u> , April 1998, Vol. 4, No. 4, pp. 428-434.	
		Duplicate Citations	

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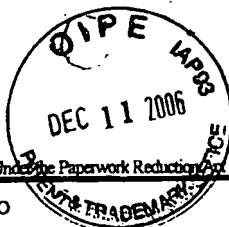
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PTO/SB/08A (10-01)

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14

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14

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**U.S. PATENT DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
		US-5,380,668	01-10-1995	Herron	
		US- 2003/0186244 A1	10-02-2003	Margus et al.	
		US- 2003/0143733 A1	06-19-2003	Khan et al.	
		US- 2003/0119720 A1	06-26-2003	Khan et al.	
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		US- 2003/0220257 A1	11-27-2003	Benner et al.	
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		US- 2004/0013661 A1	01-22-2004	Wensvoort et al.	Duplicate Citations
		US-			
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		US-			

**FOREIGN PATENT DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>4</sup>
		Country Code <sup>5</sup> - Number <sup>6</sup> - Kind Code <sup>2</sup> (if known)				
		WO-03/030303-A3	04-10-2003	Erasmus Universiteit Rotterdam	Duplicate Citation	

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